

HUMBOLDT RIVER BASIN, SOUTH FORK HUMBOLDT RIVER BASIN

10320000 SOUTH FORK HUMBOLDT RIVER ABOVE DIXIE CREEK NEAR ELKO, NV

LOCATION.--Lat 40°41'06", long 115°48'45" referenced to North American Datum of 1927, in NW 1/4 SW 1/4 sec. 05, T.32 N., R.55 E., Elko County, Hydrologic Unit 16040103, on left bank, 1.5 mi upstream from Dixie Creek, and 10.5 mi south of Elko.

DRAINAGE AREA.--1,150 mi².

PERIOD OF RECORD.--October 1948 to September 1982, July 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 5,140 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by South Fork Reservoir, approximately 2.0 mi upstream, since December, 1987. Diversions for irrigation are above the dam. Records not adjusted for storage. [See schematic diagram of Humboldt River Basin](#).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge prior to dam, 3,100 ft³/s, January 12, 1979, gage height, 6.80 ft; maximum discharge after dam, 1,600 ft³/s, June 6, 1995, gage height, 5.14 ft; minimum daily prior to dam, 0.10 ft³/s, September 9, 1959; minimum daily after dam, 1.7 ft³/s, September 15, 1988.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 331 ft³/s, May 10, June 7, 8, 9, gage height, 3.51 ft; minimum daily discharge, 2.4 ft³/s, August 24.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	5.8	6.4	4.6	e3.5	7.1	134	173	260	76	24	2.8
2	6.1	5.7	6.1	e4.1	e3.5	8.0	114	173	249	70	23	2.6
3	6.1	5.7	6.1	e4.1	e3.5	15	114	176	278	59	8.7	2.6
4	5.8	5.7	6.1	e4.1	e3.5	36	113	181	304	61	e3.5	2.7
5	5.7	5.7	6.2	e4.1	e3.5	36	124	211	303	62	e3.5	2.9
6	5.4	5.7	6.4	e4.1	e3.5	38	163	248	303	63	e3.5	3.0
7	5.3	5.7	6.4	e5.1	e3.5	39	194	287	317	65	e3.5	3.0
8	5.0	5.7	6.1	6.1	e3.5	41	191	307	326	68	e3.5	2.9
9	4.7	5.7	5.7	5.8	e3.5	42	184	307	326	53	e3.5	2.8
10	4.7	5.8	5.9	6.6	e3.5	61	173	318	326	37	e3.5	2.8
11	4.7	6.0	6.0	6.6	e3.5	80	171	324	326	38	e3.5	2.5
12	4.9	6.2	5.8	5.4	e3.5	80	159	299	326	39	3.6	2.5
13	4.8	6.5	6.4	5.1	e3.5	80	150	266	326	41	3.7	2.6
14	4.0	6.4	6.1	4.6	e3.5	81	143	227	307	42	3.8	2.7
15	4.8	6.6	5.2	e4.0	e3.5	81	134	188	249	44	4.4	2.8
16	4.8	6.8	5.6	e3.5	e3.5	90	134	190	202	41	4.1	2.7
17	5.0	6.6	5.3	e3.5	e3.5	104	137	193	181	37	4.3	2.5
18	5.1	6.4	5.4	e3.5	3.6	104	136	224	180	38	4.2	2.5
19	5.5	6.4	5.5	e3.5	3.5	121	135	250	180	40	4.6	3.6
20	5.4	6.4	6.0	e3.5	3.7	137	134	228	180	41	4.4	3.8
21	5.7	6.6	5.8	e3.5	3.9	137	133	205	182	42	4.4	3.3
22	6.1	6.4	5.7	e3.5	3.9	137	131	208	167	44	4.3	2.9
23	5.9	6.1	5.9	e3.5	3.9	137	131	210	150	44	4.1	3.0
24	5.9	6.1	5.8	e3.5	4.0	137	131	209	148	43	2.4	2.9
25	5.9	6.3	6.3	e3.5	4.2	136	131	209	125	42	2.5	3.0
26	5.9	6.5	5.8	e3.5	4.6	137	132	208	102	33	2.5	3.0
27	5.8	6.3	e5.0	e3.5	5.0	137	135	205	103	23	3.1	3.0
28	5.9	6.1	e4.6	e3.5	5.7	137	156	215	102	23	3.5	3.0
29	5.8	6.3	4.1	e3.5	6.7	140	173	265	89	23	3.6	3.2
30	5.9	6.3	4.4	e3.5	---	143	173	275	77	24	3.4	3.2
31	6.1	---	5.8	e3.5	---	144	---	273	---	24	3.0	---
TOTAL	169.2	184.5	177.9	130.4	112.2	2,803.1	4,363	7,252	6,694	1,380	157.6	86.8
MEAN	5.46	6.15	5.74	4.21	3.87	90.4	145	234	223	44.5	5.08	2.89
MAX	6.5	6.8	6.4	6.6	6.7	144	194	324	326	76	24	3.8
MIN	4.0	5.7	4.1	3.5	3.5	7.1	113	173	77	23	2.4	2.5
AC-FT	336	366	353	259	223	5,560	8,650	14,380	13,280	2,740	313	172

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2004, BY WATER YEAR (WY)

MEAN	12.2	13.7	18.1	25.0	42.2	98.7	138	337	427	112	23.7	11.4
MAX	26.5	39.2	47.7	102	138	244	311	661	1,068	518	103	26.8
(WY) (1999)	(1999)	(1999)	(1999)	(1997)	(1996)	(1996)	(1996)	(1998)	(1998)	(1998)	(1997)	(1997)
MIN	4.55	5.69	5.60	4.21	3.87	24.4	36.8	105	27.8	8.60	5.08	2.89
(WY)	(1991)	(2003)	(2003)	(2004)	(2004)	(1991)	(1991)	(1991)	(1992)	(1992)	(2004)	(2004)

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10320000 SOUTH FORK HUMBOLDT RIVER ABOVE DIXIE CREEK NEAR ELKO, NV—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR			FOR 2004 WATER YEAR			WATER YEARS 1988 - 2004		
ANNUAL TOTAL	28,560.0			23,510.7					
ANNUAL MEAN	78.2			64.2			105		
HIGHEST ANNUAL MEAN							235	1998	
LOWEST ANNUAL MEAN							36.1	1992	
HIGHEST DAILY MEAN	914	May 31		326	Jun 8		1,500	Jun 6, 1995	
LOWEST DAILY MEAN	4.0	Oct 14		2.4	Aug 24		1.7	Sep 15, 1988	
ANNUAL SEVEN-DAY MINIMUM	4.7	Oct 9		2.6	Sep 11		2.6	Aug 26, 1988	
MAXIMUM PEAK FLOW				331	May 10		1,600	Jun 6, 1995	
MAXIMUM PEAK STAGE				3.51	May 10		5.14	Jun 6, 1995	
ANNUAL RUNOFF (AC-FT)	56,650			46,630			76,180		
10 PERCENT EXCEEDS	139			208			286		
50 PERCENT EXCEEDS	6.5			6.1			24		
90 PERCENT EXCEEDS	5.4			3.5			6.3		

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 1982, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	15.2	24.1	29.0	44.7	61.4	88.0	157	360	466	130	19.6	11.4
MAX	41.3	46.4	75.3	177	238	180	633	845	1,054	507	77.3	66.6
(WY)	(1977)	(1971)	(1951)	(1979)	(1962)	(1972)	(1952)	(1952)	(1975)	(1975)	(1965)	(1982)
MIN	3.83	5.82	10.2	9.00	11.0	27.5	29.9	55.7	65.2	5.75	.76	1.20
(WY)	(1955)	(1955)	(1955)	(1955)	(1955)	(1963)	(1959)	(1959)	(1966)	(1966)	(1959)	(1954)

SUMMARY STATISTICS

WATER YEARS 1949 - 1982

ANNUAL MEAN	117		
HIGHEST ANNUAL MEAN	227		1975
LOWEST ANNUAL MEAN	27.9		1959
HIGHEST DAILY MEAN	2,400	Feb 11, 1962	
LOWEST DAILY MEAN	.10	Sep 9, 1959	
ANNUAL SEVEN-DAY MINIMUM	.19	Sep 5, 1959	
MAXIMUM PEAK FLOW	3,100	Jan 12, 1979	
MAXIMUM PEAK STAGE	6.80	Jan 12, 1979	
ANNUAL RUNOFF (AC-FT)	84,800		
10 PERCENT EXCEEDS	345		
50 PERCENT EXCEEDS	37		
90 PERCENT EXCEEDS	7.7		